

ABSTRACT

A method of improved performance through channel quality prediction for communications systems employing link adaption techniques includes a receiver which makes selective measurements on downlink transmissions, and then stores one or more of the measurements or a channel quality indicator derived therefrom. The receiver then retrieves one or more of the past measurements (or the past channel quality estimates themselves), and combines it with current measurements (or the current channel quality estimate), to predict what the channel quality will be at some future time and derive a predictive channel quality indicator (CQI). This predictive CQI, derived from both current channel measurements and at least one past channel measurement, is then sent to the transmitter for use in updating transmission parameters.